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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,212	08/27/2003	Hironori Kobayashi	CU-5984	6138
26530	7590	11/13/2008		
LADAS & PARRY LLP			EXAMINER	
224 SOUTH MICHIGAN AVENUE			RAYMOND, BRITTANY L.	
SUITE 1600				
CHICAGO, IL 60604			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			11/13/2008	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/649,212	<b>Applicant(s)</b> KOBAYASHI, HIRONORI
	<b>Examiner</b> BRITTANY RAYMOND	<b>Art Unit</b> 1795

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 28 October 2008.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-67 is/are pending in the application.

4a) Of the above claim(s) 51-67 is/are withdrawn from consideration.

5) Claim(s) 29-50 is/are allowed.

6) Claim(s) 1-28 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 14 May 2004 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-166/08)  
Paper No(s)/Mail Date 10/20/2008

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

2. Claims 1-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi (JP 2000-249821, English translation from JPO) in view of Kobayashi (U.S. Patent Publication 2002/0006558).

3. In Kobayashi ('821), a photocatalyst-containing layer-sided substrate 3 comprises a substrate 1 (second) and a photocatalyst-containing layer 2. The photocatalyst may be TiO<sub>2</sub> [0016]. The photocatalyst containing layer may include organosiloxane having a fluoroalkyl group [0087]-[0090]. Pattern forming body 6 comprises a transparent (first) substrate 4 and characteristic varying layer 5. The photocatalyst-containing layer 2 is placed in contact with the characteristic varying layer

5 and exposed to form a pattern 10. See abstract. The characteristic varying layer is a wettability change layer wherein the wettability or contact angle changes [0018]. The property change layer may be used as a decomposition removal layer in which decomposition removal is carried out by operation of the photocatalyst [0023], [0102]. The pattern may be formed by a hardening process using UV, heat or e beam [0139]. The wettability change layer may be coated by coating the entire layer using and then removing the portions depending on wettability [0142]. Various functional components, such as metals, can be obtained by using the pattern formed in the property changing area, dependent on the requirements for the specific device being manufactured [0133]-[0138]. Light filter and microlenses may be formed by applying ink which adheres to regions depending on wettability, followed by a hardening or stiffening process [0144]-[0145]. The functional pattern layer may be formed using a nozzle and a dip coating, spin coating or ink jet method [0140]. While JP 2000-249821 does not explicitly disclose that the functional pattern layer is a metal colloid, the reference does teach using the method for forming metal patterns in the manufacture of color filters. The Kobayashi ('558) reference teaches adhering a metal colloid to a pattern of exposed, lyophilic areas in order to form metal patterns for use in color filters [0001 and 0661-0663]. It would have been obvious to one of ordinary skill in the art to use a colloid as the functional layer in order to form the metal patterns in order to manufacture a color filter in the method of 2000-249821 because Kobayashi ('558) teaches adhering a metal colloid to a pattern of lyophilic areas in order to form metal patterns for use in color filters.

***Allowable Subject Matter***

4. Claims 29-50 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter: The prior art references do not teach or suggest forming a gap of 200 microns or less, without contact, between the photocatalyst treatment layer and the property variable layer during exposure.

***Response to Arguments***

6. Applicant's amendments to the specification and claims have overcome the objections to the specification that were presented in the last Office Action. Examiner has withdrawn the objections.
7. The terminal disclaimer, filed on 10/20/2008, has overcome the nonstatutory double patenting rejection that was presented in the last Office Action. Examiner has withdrawn the rejection.
8. The English translation of the foreign priority papers, filed on 10/20/2008, has overcome all 35 USC 102(e) and 35 USC 103(a) rejections that were presented in the last Office Action. Examiner has withdrawn the rejections and claims 29-50 have been allowed. However, a new grounds of rejection is made for claims 1-28 using a newly found prior art reference.

The reference, Kobayashi ('558), has replaced Watanabe to teach that metal colloids can be used for adhering to a pattern of exposed, lyophilic areas in order to form metal patterns for use in color filters.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRITTANY RAYMOND whose telephone number is (571)272-6545. The examiner can normally be reached on Monday through Friday, 8:30 a.m. - 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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***/Kathleen Duda/***

**Primary Examiner, Art Unit 1795**